Bruhat Bangalore Mahanagara Palike

Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

Name of Work: Providing Asphalting to Hosabeedhi road and yelhanka old town areas in Ward No.1 of Yelhanka Sub division.

PROJECT COST: 75.00 Lakhs

MECADEZ

Mecadez Core Technologies Private limited

Project Management and Consultancy Services

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BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work: Providing Asphalting to Hosabeedhi road and yelhanka old town areas in Ward No.1 of Yelhanka Sub division

			Estimate Amount :				7500000.00		
Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
				CIVIL WORKS					
1	**Removing BS Slab of drain and Stacking (Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 60)	L/s	1	60	0.90		54.00		
	Ch: (67 - 109)	L/s	1	42	0.90		37.80		
	Ch: (115 - 158)	L/s	1	43	0.90		38.70		
	Ch: (166 - 206)	L/s	1	40	0.90		36.00		
	Ch: (216 - 228)	L/s	1	12	0.90		10.80		
	Ch: (0 - 60)	R/s	1	60	0.90		54.00		
	Ch: (67 - 109)	R/s	1	42	0.90		37.80		
	Ch: (115 - 158)	R/s	1	43	0.90		38.70		
	Ch: (166 - 206)	R/s	1	40	0.90		36.00		
	Ch: (216 - 228)	R/s	1	12	0.90		10.80		
							354.60	**63.72**	**22595.11**
2	**Refixing Stone Slabs of drains and Pointing in C.M(1:3) (Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								
		Sqm							
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 60)	L/s	1	60	0.90		54.00		
	Ch: (67 - 109)	L/s	1	42	0.90		37.80		
	Ch: (115 - 158)	L/s	1	43	0.90		38.70		
	Ch: (166 - 206)	L/s	1	40	0.90		36.00		
	Ch: (216 - 228)	L/s	1	12	0.90		10.80		
	Ch: (0 - 60)	R/s	1	60	0.90		54.00		
	Ch: (67 - 109)	R/s	1	42	0.90		37.80		
	Ch: (115 - 158)	R/s	1	43	0.90		38.70		
	Ch: (166 - 206)	R/s	1	40	0.90		36.00		
	Ch: (216 - 228)	R/s	1	12	0.90		10.80		
							354.60		
	Taking 10% for daamaged						-35.46		
							319.14	**78.84**	**25161.00**
3	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	Desilting								
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 60)	B/s	2	60	0.50	0.600	36.00		
	Ch: (67 - 109)	B/s	2	42	0.50	0.600	25.20		
	Ch: (115 - 158)	B/s	2	43	0.50	0.600	25.80		
	Ch: (166 - 206)	B/s	2	40	0.50	0.600	24.00		
	Ch: (216 - 228)	B/s	2	12	0.50	0.600	7.20		
	New Culvert								
	oragatappa bedi								
			1	4	1.30	0.700	3.64		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Adjacent to rajanna house								
	New Drain								
	Centre for Kidney & Diabetics road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	1.00	0.700	38.50		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	1.00	0.700	72.10		
							232.44	**168.76**	**39226.57**
4	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	New Culvert								
	oragatappa bedi								
			1	4	1.20	0.100	0.48		
	New Drain								
	Centre for Kidney & Diabetics road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	0.90	0.100	4.95		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	0.90	0.100	9.27		
							14.70	**5236.92**	**76982.72**
5	Providing and laying Plain /reinforced cement concrete **M20** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2015-16).**								
		Cum							
	Raft								
	New Culvert								
	oragatappa bedi								
			1	4	1.20	0.200	0.96		
	New Drain								
	Centre for Kidney & Diabetics road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	0.90	0.150	7.43		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	0.90	0.150	13.91		
	Wall								
	New Culvert								
	oragatappa bedi								
			2	4	0.20	0.800	1.28		
	New Drain								
	Centre for Kidney & Diabetics road from railway st road to Hospital road								
	Ch: (0 - 55)		2	55	0.15	0.800	13.20		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		2	103	0.15	0.800	24.72		
							61.49	**6931.44**	**426214.25**
6	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).**								
		Tonne							
	Taking 60kg/m3								
				61.49*60/1000			3.69		
							3.69	**69805.80**	**257541.52**
7	Providing precast slab of 250mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-Data rate								
		Sqm							
	Covering Slab								
	New Culvert								
	oragatappa bedi								
			1	4	1.20		4.80		
							4.80	**5111.00**	**24532.80**
8	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-Data rate								
		Sqm							
	Covering Slab								
	New Drain								
	Centre for Kidney & Diabetics road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	0.90		49.50		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	0.90		92.70		
	For Damaged						35.46		
							177.66	**1834.00**	**325828.44**
9	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.Specification No. KBS **(Page No 101., I.No.14.6 of KPWD S.R 2015-16).**								
		Sqm							
	Railwaystation roads								
	Ch: (0 - 182)		1	182	1.50		273.00		
							273.00	**934.20**	**255036.60**
10	Providing and fixing pre cast solid cement concrete **kerb stones** made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete. **(Page No 25., I.No.5.30 of KPWD S.R 2015-16).**								
		Nos							

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amou in Rs
	Railwaystation roads								
	Ch: (0 - 182)		1	182			404.00		
							404.00	**320.76**	**129587.04**
	ROAD WORKS								
11	KSRRB M200-13.1. **Dismantling of existing structures** like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. **By Mechanical Means. A. Cement Concrete Grade M-15 &M-20 (Page No 136, I.No.18.20 of KPWD S.R 2015-16).**								
		Cum							
	From 2nd cross to dead end								
	Ch: (0 - 40)		1	40	2.50	0.150	15.00		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		1	95	3.20	0.150	45.60		
	1st cross vakklegeri								
	Ch: (0 - 32)		1	32	2.10	0.150	10.08		
	TB Nangappa Block								
	Ch: (0 - 41)		1	41	3.00	0.150	18.45		
							89.13	**450.83**	**40182.48**
12	KSRRB M300-14. **Excavation for roadwork in all type of soil with hydraulic excavator** of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00	0.425	144.50		
	Bramhanara beedi								
	Ch: (28 - 41)		1	13	3.50	0.375	17.06		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		1	95	3.20	0.225	68.40		
	1st cross vakklegeri								
	Ch: (0 - 32)		1	32	2.10	0.225	15.12		
	TB Nangappa Block								
	Ch: (0 - 41)		1	41	3.00	0.225	27.68		
	Railwaystation roads								
	Ch: (0 - 9)		1	9	5.00	0.425	19.13		
	Adjacent to rajanna house								
	Ch: (0 - 20)		1	20	3.50	0.375	26.25		
	Centre for Kidney & Diabetics road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50	0.425	128.56		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50	0.425	240.76		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	2.00	0.275	125.40		
							812.86	**134.20**	**109085.48**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
13	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00	0.150	51.00		
	Bramhanara beedi								
	Ch: (28 - 41)		1	13	3.50	0.150	6.83		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		1	95	3.20	0.150	45.60		
	1st cross vakklegeri								
	Ch: (0 - 32)		1	32	2.10	0.150	10.08		
	TB Nangappa Block								
	Ch: (0 - 41)		1	41	3.00	0.150	18.45		
	Railwaystation roads								
	Ch: (0 - 9)		1	9	5.00	0.150	6.75		
	Adjacent to rajanna house								
	Ch: (0 - 20)		1	20	3.50	0.150	10.50		
	Centre for Kidney & Diabeties road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50	0.150	45.38		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50	0.150	84.98		
							279.56	**1622.16**	**453482.94**
14	KSRRB M600-1. Construction of **dry lean cement concrete mix M5** with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1,aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 (Page No,-173, I.No.22.1 of KPWD S.R 2015-16)								
		Cum							
	Road cut portion								
	pete anjaneyaswamy temple road								
	Ch: (0 - 40)		1	40	0.70	0.075	2.10		
	Ch: (40 - 47)		1	7	0.70	0.075	0.37		
	Ch: (47 - 87)		1	40	0.70	0.075	2.10		
	Ch: (87 - 119)		1	32	0.70	0.075	1.68		
	BTS Back side								
	Ch: (0 - 24)		1	24	1.00	0.075	1.80		
	New Formation								
	Bramhanara beedi								
	Ch: (28 - 41)		1	13	3.50	0.075	3.41		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		1	95	3.20	0.075	22.80		
	1st cross vakklegeri								
	Ch: (0 - 32)		1	32	2.10	0.075	5.04		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	TB Nangappa Block								
	Ch: (0 - 41)								
	Adjacent to rajanna house		1	41	3.00	0.075	9.23		
	Ch: (0 - 20)								
			1	20	3.50	0.075	5.25		
							53.78	**3900.96**	**209774.12**
15	Cement concrete pavement.Construction of **un-reinforced plain cement concrete** pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 **design mix M30**(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 caffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications.(Page No 174., I.No.22.6.1 of KPWD S.R 2015-16).								
		Cum							
	New Formation								
	pete anjaneyaswamy temple road								
	Ch: (0 - 40)		1	40	4.50	0.150	27.00		
	Ch: (40 - 47)		1	7	4.80	0.150	5.04		
	Ch: (47 - 87)		1	40	3.50	0.150	21.00		
	Ch: (87 - 119)		1	32	4.50	0.150	21.60		
	Maheswara temple road								
	Ch: (0 - 31)		1	31	3.50	0.150	16.28		
	Ch: (31 - 50)				Good condition				
	Bramhanara beedi								
	Ch: (0 - 29)		1	29	3.00	0.150	13.05		
	Ch: (0 - 47)		1	47	3.30	0.150	23.27		
	Ch: (0 - 28)		1	28	3.50	0.150	14.70		
	Ch: (28 - 41)		1	13	3.50	0.150	6.83		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		1	95	3.20	0.150	45.60		
	3rd cross Hal rangappa bedi								
	Ch: (0 - 82)		1	82	3.00	0.150	36.90		
	1st cross vakklegeri								
	Ch: (0 - 32)		1	32	2.10	0.150	10.08		
	TB Nangappa Block								
	Ch: (0 - 41)		1	41	3.00	0.150	18.45		
	oragatappa bedi								
	Ch: (0 - 83)		1	83	3.20	0.150	39.84		
	BTS Back side								
	Ch: (0 - 70)		1	70	3.00	0.100	21.00		
	Adjacent to rajanna house								
	Ch: (0 - 20)		1	20	3.50	0.150	10.50		
							331.13	**5957.28**	**1972604.34**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
16	Providing **groove cutting** for Concrete pavement width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.**(Page No 172., I.No.22.8.1 of KPWD S.R 2015-16).**								
		m							
	LONGITUDINAL								
	pete anjaneyaswamy temple road								
	Ch: (0 - 40)		1	40			40.00		
	Ch: (40 - 47)		1	7			7.00		
	Ch: (47 - 87)		1	40			40.00		
	Ch: (87 - 119)		1	32			32.00		
	Maheswara temple road								
	Ch: (0 - 31)		1	31			31.00		
	Ch: (31 - 50)			Good condition					
	Bramhanara beedi								
	Ch: (0 - 29)		1	29			29.00		
	Ch: (0 - 47)		1	47			47.00		
	Ch: (0 - 28)		1	28			28.00		
	Ch: (28 - 41)		1	13			13.00		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		1	95			95.00		
	oragatappa bedi								
	Ch: (0 - 83)		1	83			83.00		
	BTS Back side								
	Ch: (0 - 70)		1	70			70.00		
	Adjacent to rajanna house								
	Ch: (0 - 20)		1	20			20.00		
	LATERAL								
	pete anjaneyaswamy temple road								
	Ch: (0 - 40)		9	4.50			40.50		
	Ch: (40 - 47)		2	4.80			9.60		
	Ch: (47 - 87)		9	3.50			31.50		
	Ch: (87 - 119)		7	4.50			31.50		
	Maheswara temple road								
	Ch: (0 - 31)		7	3.50			24.50		
	Ch: (31 - 50)			Good condition					
	Bramhanara beedi								
	Ch: (0 - 29)		6	3.00			18.00		
	Ch: (0 - 47)		10	3.30			33.00		
	Ch: (0 - 28)		6	3.50			21.00		
	Ch: (28 - 41)		3	3.50			10.50		
	4th cross Muniyappa bedi								
	Ch: (0 - 95)		21	3.2			67.20		
	oragatappa bedi								
	Ch: (0 - 83)		18	3.2			57.60		
	BTS Back side								
	Ch: (0 - 70)		16	3			48.00		
	Adjacent to rajanna house								
	Ch: (0 - 20)		4	3.5			14.00		
							941.90	**124.20**	**116983.98**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
17	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5**(Page No 160., I.No.21.2 of KPWD S.R 2015-16).**								
		Sqm							
	Hosabeedi road from Hospital road								
	Ch: (85 - 150)		1	65	5.00		325.00		
	Ch: (150 - 171)		1	21	3.20		67.20		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	4.00		912.00		
	Railwaystation roads								
	Ch: (0 - 88)		1	88	4.25		374.00		
	Ch: (0 - 182)		1	182	6.00		1092.00		
	Ch: (0 - 9)		1	9	5.00		45.00		
							2815.20	**3.24**	**9121.25**
18	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 157., I.No.20.18 of KPWD S.R 2015-16).**								
		Cum							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00	0.225	76.50		
	Railwaystation roads								
	Ch: (0 - 9)		1	9	5.00	0.225	10.13		
	Centre for Kidney & Diabeties road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50	0.225	68.06		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50	0.225	127.46		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	2.00	0.225	102.60		
							384.75	**1713.96**	**659446.11**
19	KSRRB M500-6. Providing and applying **primer coat with S.S. bitumen emulsion** on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 160., I.No.21.6 of KPWD S.R 2015-16).**								
		Cum							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00		340.00		
	Railwaystation roads								
	Ch: (0 - 9)		1	9	5.00		45.00		
	Centre for Kidney & Diabeties road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50		302.50		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50		566.50		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	2.00		456.00		
							1710.00	**32.40**	**55404.00**
20	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **(Page No 160., I.No.21.7 of KPWD S.R 2015-16).**								
		Sqm							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00		340.00		
	Ch: (85 - 150)		1	65	5.00		325.00		
	Ch: (150 - 171)		1	21	3.20		67.20		
	Railwaystation roads								
	Ch: (0 - 88)		1	88	4.25		374.00		
	Ch: (0 - 182)		1	182	6.00		1092.00		
	Ch: (0 - 9)		1	9	5.00		45.00		
	Centre for Kidney & Diabeties road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50		302.50		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50		566.50		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	6.00		1368.00		
							4480.20	**15.12**	**67740.62**
21	KSRRB M500- 15. Providing, laying **dense graded bituminous macadam** using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507 **(Page No 161., I.No.21.17.6 of KPWD S.R 2015-16).**								
		Cum							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00	0.050	17.00		
	Railwaystation roads								
	Ch: (0 - 9)		1	9	5.00	0.050	2.25		
	Centre for Kidney & Diabeties road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50	0.050	15.13		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50	0.050	28.33		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	2.00	0.050	22.80		
							85.50		
	Profile correction								
	Hosabeedi road from Hospital road								
	Ch: (85 - 150)		1	65	5.00		325.00		
	Ch: (150 - 171)		1	21	3.20		67.20		
	Railwaystation roads								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (0 - 88)		1	88	4.25		374.00		
	Ch: (0 - 182)		1	182	6.00		1092.00		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	4.00		912.00		
	10% of the total area		1	277.02		0.05	**13.85**		
							99.35	**7927.20**	**787575.25**
22	KSRRB M500- 15. Providing, laying **bituminousConcrete** using **40/60 THP** capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with wheeled , vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 **(Page No 164., I.No.21.22.6 of KPWD S.R 2015-16).**								
		Cum							
	Hosabeedi road from Hospital road								
	Ch: (0 - 85)		1	85	4.00	0.030	10.20		
	Ch: (85 - 150)		1	65	5.00	0.030	9.75		
	Ch: (150 - 171)		1	21	3.20	0.030	2.02		
	Railwaystation roads								
	Ch: (0 - 88)		1	88	4.25	0.030	11.22		
	Ch: (0 - 182)		1	182	6.00	0.030	32.76		
	Ch: (0 - 9)		1	9	5.00	0.030	1.35		
	Centre for Kidney & Diabeties road from railway st road to Hospital road								
	Ch: (0 - 55)		1	55	5.50	0.030	9.08		
	HDFC road from Railway st road to End road								
	Ch: (0 - 103)		1	103	5.50	0.030	17.00		
	Adjacent to State bank of Mysore bank								
	Ch: (0 - 228)		1	228	6.00	0.030	41.04		
							134.41	**9822.60**	**1320216.38**
	Sub Total								**7384323.00**
23	Cost towards Design Report and Detailed Estimate,PMC/Third party								**73843.23**
24	**Cost of Plastic@ 8% of bitumen qty for**	**Kg**	1	1516.10				**27.00**	**40934.69**
25	Miscllenous and other charges								**899.08**
	Grand Total								**7500000.00**

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-1
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP